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Nebraska Public Power District

COOPER NUCLEAR STATION P.O. BOX 96, BROWNVILLE, NEBRASKA 68321 TELEPHONE (402)825-3811 FAX (402)625-5205

NLS960008

January 12, 1996

U.S. Nuclear Regulatory Commission Document Control Desk Washington, D.C. 20555-0001

Dear Sir:

Cooper Nuclear Station Licensee Event Report 95-022 is forwarded as an attachment to this letter. A supplemental report with an expected submission date of February 12, 1996, will be submitted detailing cause and corrective actions.

Powerful Pride in Nebraska

Sincerely,

UT J. T. Herron Plant Manager

/cct

Attachment

cc: Regional Administrator USNRC - Region IV

> Senior Project Manager USNRC - NRR Project Directorate IV-1

Senior Resident Inspector USNRC

NPG Distribution

INPO Records Center

W. Turnbull MidAmerica Energy

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TITLE (4)								<u> </u>							
Reactor T	rip Signal,	ESF Actua	ation, and	Loss of	Shutdo	own C	ooling	Duri	ing	Mainte	enance Acti	vity			
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		20.220	3(a)(2)(iv)		50.36(c)(2) SEE CONTACT FOR THIS			50.73(a)(2)(vii)							
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TEXT (If more space is required, use additional copies of NRC F <u>PLANT CONDITIONS</u> Cooper Nuclear Station (CNS) was in a cold shutdo			Tago PE16	The second				

EVENT DESCRIPTION

Removal System.

At 1100 CST on December 12, 1995, Engineering identified the potential for an improper gasket to be installed on the one inch reactor pressure vessel head condensing pot line flange. A maintenance work request (MWR) package was completed prior to the next day shift in order to replace the flange gasket and the Shift Supervisor signed for authorization to commence work at 1418 on December 13, 1995.

reassembled and heat removal was being accomplished with the shutdown cooling mode of the Residual Heat

At 1529, the control room staff noticed indication of vessel level on the shutdown and steam nozzle range reactor vessel level instruments, NBI-LI-86 and NBI-LI-92, reading upscale high. It was later learned that the mechanic had loosened the bolts on the flange which resulted in draining the condensing pot. The mechanic continued with and completed the gasket change-out.

After learning the cause of the erroneous level indication, the Shift Supervisor discussed the situation with the outage manager. The outage manager contacted maintenance planning to revise the MWR to include backfilling the sensing line and also informed the Instrument and Control (IAC) shop crew leader that Reference Leg 1A would require backfill.

The IAC technicians were uncertain over the high/low variable/reference leg configuration for this dP cell and since the procedure had steps for filling both sides of a dP cell, the technicians decided to fill both the high and low sides. They contacted the IAC crew leader to determine if any other instruments would be affected. The IAC crew leader misread the print and incorrectly informed them that there were not any other instruments that could be affected and the IAC technicians proceeded to fill the variable leg.

A control room operator noticed NBI-LI-94A and C were upscale and informed the IAC technicians of the indication. The IAC technicians looked at NBI-LIS-101A and B and noted them upscale. An IAC technician closed the demineralized water valve causing a drop in flow pressure with a subsequent down scale indication and activation of NBI-LS-101A and B. At 1658, the Reactor Vessel Water Low signal was initiated from a 2/4 logic and resulted in a reactor trip signal (with all rods previously fully inserted) and Groups 2, 3, and 6 isolations. The group isolations resulted in isolation and temporary loss of the Shutdown Cooling mode of the Residual Heat Removal System (Group 2) and isolation of the Secondary Containment and initiation of the Standby Gas Treatment System (Group 6). The Reactor Water Cleanup System (Group 3) was already isolated when the event occurred. At 1706, the reactor trip signal was reset, at 1707, Groups 2,3, and 6 isolations were reset, and at 1724, Shutdown Cooling was restored after a reactor water temperature increase of approximately three degrees Fahrenheit from 110 to 113.

NRC FORM 3664	A		U.S. NUCLEAR REGULA	TORY COMMISSION
(+ 00)	LICENSE	E EVENT REPORT (I	LER)	
		EXT CONTINUATION		<u></u>
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TEXT (If more sp	pace is required, use additional copies of NRC	Form 366A) (17)		
CAUSE				
The investiga	tion of the cause of this event is cor	atinuing and will be repor	ted in a supplement to this	IER
		tanding and win be repor	ted in a supplement to this	LEN.
SAFETY SIGN	NIFICANCE			
sequence of e increase in pr	gnificance of this specific event is lo events, the cause of the loss of shut ocess temperature. If the event had ored shutdown cooling.	down cool - was identif	fied and corrected with only	a three degree
CORRECTIVE	ACTIONS			
Corrective ac	tions to prevent recurrence will be p	rovided in a supplement t	to this LER.	
SIMILAR EVE	NTS			
LER 88-015	ESF Group Isolations occurred wh Venting of the LT was being acco serves several other LTs which re- Low Level signal. Cause was attr provided reflecting the steps or po- was reviewed with design engineer installation/acceptance testing. The dissemination of the information re-	mplished by opening the sulted in NBI-LIS-101A ar ibuted to a procedural de ossible interactions that c ers in regards to providing the LER was routed to IAC	transmitter vent. The varia nd B activating the Reactor ficiency in that no specific g ould occur during the proce g detailed instructions for C and Engineering superviso	ble leg also Vessel Water guidance was ss. The event
LER 89-002	ESF group isolations occurred whi indicators. An IAC tech was atten investigative process. The test in being placed in service, an instrum in two separate RPS channels to t and equipment to be used were m the task being performed by the in discussed with all IAC personnel of the event as initially planned versi- event were incorporated into appr	mpting to valve a dP test strument used was incorr nent reference leg pressu trip. Cause was inadequa ot well defined. Addition nvolved personnel contrib during a shop seminar, id us the subsequent succes	instrument into the loop as rect for the intended applica- re transient resulted in two ate job planning wherein the ally, an apparent lack of co- buted to the event. The eve entifying the shortcomings ssful plan. The lessons lear	part of the ation and upon level switches specific steps ncentration on ant was associated with

LIST OF NRC COMMITMENTS

Correspondence No: NLS960008

The following table identifies those actions committed to by the District in this document. Any other actions discussed in the submittal represent intended or planned actions by the District. They are described to the NRC for the NRC's information and are not regulatory commitments. Please notify the Licensing Manager at Cooper Nuclear Station of any questions regarding this document or any associated regulatory commitments.

COMMITTED DATE OR OUTAGE

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